

Ag. Waste Application and Excavated Ponds  
Charles Mix County, South  
Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
AaA: Agar-----	90	Not limited		Very limited Deep to water	1.00
AaB: Agar-----	90	Not limited		Very limited Deep to water	1.00
AaC: Agar-----	85	Not limited		Very limited Deep to water	1.00
Ab: Albaton-----	85	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Flooding	0.60		
		Runoff limitation	0.40		
An: Albaton-----	95	Very limited Restricted permeability	1.00	Very limited Slow refill	1.00
		Depth to saturated zone	1.00	Cutbanks cave	0.10
		Flooding	1.00		
		Ponding	1.00		
		Runoff limitation	0.40		
Ao: Aowa-----	90	Not limited		Somewhat limited Deep to water	0.81
				Slow refill	0.30
				Cutbanks cave	0.10
Ar: Arlo-----	95	Very limited Depth to saturated zone	1.00	Very limited Cutbanks cave	1.00
		Flooding	1.00		
		Filtering capacity	1.00		

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
AsA: Arlo-----	45	Very limited Depth to saturated zone Filtering capacity Flooding	1.00 1.00 0.60	Very limited Cutbanks cave	1.00
Enet-----	35	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
BbC: Beadle-----	50	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Eakin-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
BcA: Beadle-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Jerauld-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
BdF: Betts-----	85	Very limited Slope Restricted permeability Salinity	1.00 0.30 0.01	Very limited Deep to water	1.00
BeE: Betts-----	45	Very limited Slope Restricted permeability Salinity	1.00 0.30 0.01	Very limited Deep to water	1.00
Ethan-----	35	Very limited Slope	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Bn: Bon-----	85	Somewhat limited Flooding	0.60	Very limited Cutbanks cave Deep to water	1.00 0.81
Bo: Bon-----	85	Very limited Flooding	1.00	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
BsD: Boyd-----	55	Very limited Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 0.99 0.42 0.40	Very limited Deep to water	1.00
Sansarc-----	35	Very limited Restricted permeability Depth to bedrock Droughty Slope Runoff limitation	1.00 1.00 1.00 0.63 0.40	Very limited Deep to water	1.00
CeB: Clarno-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
CeC: Clarno-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00
Da: Degrey-----	50	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Jerauld-----	30	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00  1.00 0.50 0.40	Very limited Deep to water	1.00
Db: Degrey-----	45	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00  1.00 0.40 0.01	Very limited Deep to water	1.00
Walke-----	35	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
DmC: Delmont-----	50	Very limited Depth to dense layer Filtering capacity Droughty	1.00  1.00  0.24	Very limited Deep to water	1.00
Talmo-----	30	Very limited Filtering capacity Droughty Leaching limitation	1.00  0.76 0.45	Very limited Deep to water	1.00
DnA: Dorna-----	85	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
Du: Durrstein-----	90	Very limited Restricted permeability Depth to saturated zone Sodium content Salinity Runoff limitation	1.00  1.00  1.00 0.50 0.40	Very limited Slow refill  Salty water  Cutbanks cave	1.00  0.50  0.10

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
EaA: Eakin-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
EbB: Eakin-----	45	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Beadle-----	40	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
EdA: Eakin-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Degrey-----	25	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.01	Very limited Deep to water	1.00
EeB: Eakin-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	25	Not limited		Very limited Deep to water	1.00
EeC: Eakin-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00
EmA: Enet-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
EnC: Enet-----	50	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
Delmont-----	35	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.24	Very limited Deep to water	1.00
EtD: Ethan-----	45	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Clarno-----	40	Somewhat limited Slope Restricted permeability	0.63 0.30	Very limited Deep to water	1.00
EuC: Ethan-----	70	Not limited		Very limited Deep to water	1.00
Homme-----	20	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
GsE: Gavins-----	70	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Sansarc-----	20	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
Gv: Graceville-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HaA: Hand-----	85	Not limited		Very limited Deep to water	1.00
Hb: Haynie-----	90	Not limited		Very limited Deep to water	1.00
Hc: Haynie Variant-----	90	Not limited		Very limited Deep to water	1.00
HeB: Henkin-----	90	Not limited		Very limited Deep to water	1.00
HgA: Highmore-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HhB: Highmore-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Eakin-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HlA: Highmore-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Walke-----	25	Very limited Sodium content Restricted permeability	1.00 0.89	Very limited Deep to water	1.00
HmB: Homme-----	40	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	30	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Onita-----	15	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HoA: Homme-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Onita-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HoB: Homme-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Onita-----	25	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HuA: Houdek-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HuB: Houdek-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Hv: Hoven-----	85	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Sodium content	1.00		
		Salinity	0.50		
InB: Inavale-----	80	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
		Droughty	0.88		
		Leaching limitation	0.45		



Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Norway-----	20	Very limited Depth to saturated zone Flooding Filtering capacity Droughty Runoff limitation	1.00 1.00 1.00 0.65 0.40	Very limited Cutbanks cave	1.00
IvA: Inavale-----	90	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.20	Very limited Deep to water	1.00
Ix: Norway-----	90	Very limited Depth to saturated zone Flooding Filtering capacity Droughty Runoff limitation	1.00 1.00 1.00 0.65 0.40	Very limited Cutbanks cave	1.00
LaA: Lane-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
LaB: Lane-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
LoA: Lowry-----	85	Not limited		Very limited Deep to water	1.00
LoB: Lowry-----	85	Not limited		Very limited Deep to water	1.00
LoC: Lowry-----	85	Not limited		Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
LrF: Lowry-----	55	Somewhat limited Slope	0.37	Very limited Deep to water	1.00
Gavins-----	30	Very limited Slope Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 0.40	Very limited Deep to water	1.00
LsD: Lowry-----	55	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
Sully-----	30	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
M-W: Miscellaneous Water Area-----	100	Not rated		Not rated	
MeE: Meadin-----	90	Very limited Slope Filtering capacity Droughty Leaching limitation Too acid	1.00 1.00 0.82 0.45 0.02	Very limited Deep to water	1.00
Mo: Mobridge-----	90	Not limited		Very limited Deep to water	1.00
Mu: Munjor-----	90	Not limited		Very limited Deep to water	1.00
OeF: Okaton-----	90	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00 1.00 1.00 0.40	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Oh: Onawa-----	90	Very limited Restricted permeability Leaching limitation Depth to saturated zone	1.00 0.50 0.09	Somewhat limited Deep to water Cutbanks cave	0.54 0.10
Om: Onawa-----	90	Very limited Restricted permeability Leaching limitation Depth to saturated zone	1.00 0.50 0.09	Somewhat limited Deep to water Cutbanks cave	0.54 0.10
On: Onita-----	85	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Oo: Onita-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Davison-----	35	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
Or: Orthents, Loamy-----	80	Not rated		Not rated	
Os: Onita-----	60	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Hoven-----	25	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Ot: Onita-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Tetanka-----	25	Very limited Restricted permeability	1.00	Somewhat limited Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Depth to saturated zone	1.00	Salty water	0.01
		Leaching limitation	0.50		
Pg: Orthents, Gravelly--	100	Very limited Slope	1.00	Very limited Deep to water	1.00
		Filtering capacity	1.00		
		Droughty	0.95		
		Leaching limitation	0.45		
PoA: Promise-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Runoff limitation	0.40		
		Sodium content	0.02		
PoB: Promise-----	90	Very limited Restricted permeability	1.00	Very limited Deep to water	1.00
		Runoff limitation	0.40		
		Sodium content	0.02		
Pr: Prosper-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Sa: Salmo-----	85	Very limited Depth to saturated zone Flooding Restricted permeability Salinity Leaching limitation	1.00  1.00 0.89  0.50 0.50	Somewhat limited Salty water  Slow refill Cutbanks cave	0.50  0.43 0.10
Sm: Salmo-----	50	Very limited Depth to saturated zone Flooding Restricted permeability Salinity Leaching limitation	1.00  1.00 0.89  0.50 0.50	Somewhat limited Salty water  Slow refill Cutbanks cave	0.50  0.43 0.10
Napa-----	35	Very limited Restricted permeability Flooding Depth to saturated zone Sodium content Salinity	1.00  1.00 1.00  0.98 0.50	Very limited Slow refill  Salty water Cutbanks cave	1.00  0.50 0.10
SnF: Sansarc-----	85	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00  1.00 1.00 0.40	Very limited Deep to water	1.00
SoF: Sansarc-----	50	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00  1.00 1.00 0.40	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Boyd-----	30	Very limited Slope Restricted permeability Droughty Depth to bedrock Runoff limitation	1.00 1.00  0.99 0.42 0.40	Very limited Deep to water	1.00
SrF: Sansarc-----	55	Very limited Slope Restricted permeability Depth to bedrock Droughty Runoff limitation	1.00 1.00  1.00 1.00 0.40	Very limited Deep to water	1.00
Rock Outcrop, Soft--	30	Not rated		Not rated	
SuE: Sully-----	80	Very limited Slope	1.00	Very limited Deep to water	1.00
TaC: Talmo-----	100	Very limited Filtering capacity Droughty Leaching limitation	1.00  0.92 0.45	Very limited Deep to water	1.00
TbE: Talmo-----	70	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00  0.76 0.45	Very limited Deep to water	1.00
Betts-----	20	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Te: Tetonka-----	90	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
Tn: Tetonka-----	55	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01
Chancellor-----	25	Very limited Restricted permeability Flooding Depth to saturated zone	1.00 1.00 1.00	Somewhat limited Slow refill Cutbanks cave	0.99 0.10
W: Water-----	100	Not rated		Not rated	
Wd: Wendte Variant-----	90	Very limited Restricted permeability Depth to saturated zone Flooding Runoff limitation	1.00 0.84 0.60 0.40	Very limited Slow refill Cutbanks cave Deep to water	1.00 0.10 0.07
Wo: Worthing-----	85	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill Cutbanks cave Salty water	0.95 0.10 0.01

Ag. Waste Application and Excavated Ponds -- continued  
Charles Mix County, South  
Dakota

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Wp: Worthing-----	100	Very limited		Somewhat limited	
		Restricted	1.00	Slow refill	0.95
		permeability			
		Ponding	1.00	Cutbanks cave	0.10
		Depth to	1.00	Salty water	0.01
		saturated zone			
		Runoff limitation	0.40		



